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- H. Transmitter As suggested in a previous visit the contractor measured the transmitter radiated output under key-up conditions and found excessive (continuously running oscillator, the absence of a buffer, oscillator/tank coupling through power amplifier tube capacity). The transmitter is now designed for oscillator cathode keying (50 volts at 25 ma) and radiation under key-up conditions is now corrected. The contractor reaffirmed that power output varies between 25 and 30 watts into loads of 70 to 1200 ohms over the entire frequency range. Work at the present time concerns the tone keying circuitry for recognition.
 - 5. Tape Cartridge A functional model of the keyer-coder tape cartridge has been fabricated. This unit consists of two spring loaded tape spools, gear mechanism, and recorder heads. In coder operation placing data on the tape winds the spool spring. In removing the cartridge from the coder the spring motor returns the tape start for correct indexing. In keyer operation removal and reinsertion of the cardridge automatically indexes the tape for second or additional transmissions. The cartridge is motor driven in the keyer for transmitting.
 - 6. Keyer The mechanical design is almost complete. The electrical design will be transistorized upon completion, by Some basic data on tests of the flux density, impedance and signal threshold was said to be necessary before this work could commence.
 - 7. Coder Mechanical design nearing completion present work involves some refinements.
 - 8. Power Supply and System Packaging This problem was discussed in considerable detail. The undersigned stressed the need for extensive study of human engineering pointing out that packaging techniques cannot be optimized until positive data on the GFE components are determined. (The particular receiver to be incorporated firm data on the TP-3 design etc.) The undersigned described the

were studying transformer and choke size versus operating duty cycle and 1% ripple. (The 1% ripple was indicated as necessary for transistorized circuitry).

9. Summary - Both to a lesser degree are active in the AS-3 development as representative of senior engineering supervision. Progress remains slow but decisive. Packaging is excellent. The next two months should complete the keyer and coder design to a point where electrical tests can be undertaken, and the January/February Progress Report should contain transmitter test data.

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